iConverter

iConverter® 4Tx
4-Port 10/100BASE-TX Managed Ethernet Switch

The *iConverter* 4Tx 10/100 Ethernet Switch module is a member of the managed *iConverter* product family. The 4Tx provides a compact 4-Port 10/100 Ethernet switch that is expandable across the *iConverter* 19-Module, 5-Module and 2-Module chassis backplanes, as well as being supported as a standalone switch with the *iConverter* 1-Module Chassis.

The *iConverter* 4Tx UTP ports feature 10/100Mbps, Half or Full-Duplex and auto-negotiation with both hardware and software controls. Hardware control is available for two ports while all four ports are under software control for these features.

RJ-45 crossover support eliminates need for a crossover cable and facilitates connectivity to different types of network equipment. The 4Tx crossover switch is supported on Port 1. Ports 2, 3 and 4 support an automatic crossover detection mode. The 4Tx also features two Ethernet backplane ports to provide connectivity to adjacent modules for network expansion and for in-band connectivity to an *iConverter* Network Management Module.

4Tx enhanced features include Port VLAN which allows complete control of traffic flow between a module's ports, and Port Access Control which incorporates remote enabling and disabling of each individual port. The 4Tx supports reporting of MIB statistics that are available for 32 variables per port, reporting a wide range of real-time packet statistics to provide performance and operational monitoring.

iConverter 4Tx modules are hot-swappable and can be mounted in a 19-Module (2U high) or 5-Module (1U high) rack-mountable chassis (19-inch or 23-inch) with any combination of redundant AC, 24VDC or 48VDC power supplies. They can also be mounted in a 2-Module AC or 18 to 60VDC powered chassis, or in a 1-Module AC/DC powered chassis.

- The *iConverter* 4Tx Managed Ethernet Switch supports 10BASE-T or 100BASE-TX on four UTP ports
- Enhanced features include Port VLAN, Port Access Control and MIB Statistics
- Multiple 4Tx modules can be installed to expand the port concentration in a single chassis
- Supports Half or Full-Duplex and auto-negotiation
- RJ-45 crossover support eliminates need for different cables in connecting to various devices
- Ethernet backplane ports for connectivity to adjacent modules
- Management is available with the addition of a management module to the chassis
- SNMP management via *NetOutlook*™ provides real-time port and module information, remote parameter configuration and trap notification
- Conforms to IEEE 802.3, 10BASE-T and 100BASE-TX specifications
- Modules are hot-swappable in 19-Module, 5-Module, 2-Module or 1-Module chassis
- Lifetime Warranty and free 24/7 Technical Support

SPECIFICATIONS

Model Type	4Tx
Protocols	10BASE-T, 100BASE-TX
UTP Connectors	RJ-45
Controls	UTP X-over (Port 1), BP Enable, Auto/Man, 10/100, FDX/HDX
LED Displays	Power, 10/100 UTP Link
Dimensions	W:0.85" x D:4.5" x H:2.8"
Weight	8 oz.
Compliance	UL, CE, FCC Class A
Power Requirement	0.9 @ 3.3VDC (typical)
Temperature	Standard: 0 to 50º C Wide: -40 to 60º C Storage: -40 to 80º C
Humidity	5 to 95% (non-condensing)
Altitude	-100m to 4000m
MTBF (hrs)	910, 000

MANAGEMENT

Management is accomplished by using a Network Management Module (NMM) or a media converter with integrated management (such as an *iConverter* 10/100M2) that provides monitoring, remote configuration and trap notification. The management module can be accessed via SNMP, Telnet and via a serial port. The SNMP-based management is accomplished via Omnitron's intuitive, graphic-oriented *NetOutlook* management software or third party SNMP management software, while the Telnet and the serial interfaces have an easy-to-use, menu-driven interface.

Some of the real-time 4Tx parameters that can be monitored include link and data receive status. Other parameters include module type and model, hardware and software revisions, serial numbers and a user-defined identifier.

The user can override the 4Tx module's physical switch settings by using SNMP or Telnet to remotely configure switch-selectable parameters such as auto-negotiation, Half or Full-Duplex and Backplane Selection.

In addition to all standard *iConverter* SNMP traps such as module insertion and removal, the 4Tx modules can generate traps on port state changes including link-up and link-down. Trap monitoring of specific events can be selectively enabled or disabled by the network administrator.

ORDERING INFORMATION

Model Type	Connectors	Distance
8480-4	RJ-45 x 4	100m

For wide temperature (-40 to 60º C) modules, add a "W" to the end of the model number. Consult factory for other configurations and extended temperature (-40 to +75º C) modules.

CHASSIS OPTIONS

Configuration	19-Module			5-Module			2-Module		1-Module	
	AC	24VDC	48VDC	AC	24VDC	48VDC	AC	18-60 VDC	US AC	Universal AC
One (1) Power Supply	8200-1	8206-1	8205-1	8220-1	8226-1	8225-1	8230-0	8235-0	8240-1	8240-2
One (1) Power Supply w/ Dying Gasp Support	--	--	--	--	--	--	8230-1	8235-1	8241-1	8241-2
Two (2) Power Supplies	8200-2	8206-2	8205-2	8220-2	8226-2	8225-2	--	--	8245-111*	8245-112*
Three (3) Power Supplies	8200-3	8206-3	8205-3	--	--	--	--	--	--	--
Spare Power Supply	8200-9	8206-9	8205-9	8220-9	8226-9	8225-9	--	--	--	--
23" Rack Mounting Kit	8091-2	8091-2	8091-2	8092-2	8092-2	8092-2	--	--	--	--
Blank Module Panel	8090-0	8090-0	8090-0	8090-0	8090-0	8090-0	8090-0	8090-0	--	--
Wall-Mounting Hardware Kit	--	--	--	--	--	--	8249-0	8249-0	8249-0	8249-0
DIN-Rail Mounting Kit	--	--	--	--	--	--	--	--	8250-0	8250-0

*Please refer to the *iConverter* 1-Module Redundant Power Chassis data sheet for additional model numbers and ordering options.
For wide (-40 to +60º C) and extended (-40 to +75º C) temperature range chassis, contact Omnitron for details.

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